

SciFinder[®] offers many new structure drawing, reaction search and display, answer set manipulation, and results postprocessing features and enhancements. Improved performance combined with improved integration with your work further enhances your overall SciFinder experience.

Structure Drawing

Keyboard Shortcuts and Paste from ChemDraw

- The structure editor Pencil Tool now includes keyboard shortcut functions to quickly highlight, and with a simple keystroke, change an atom or bond in a structure drawing. (Click on the Shortcut Keys hyperlink to open this feature)
- 2. Clickable bonds make it easy to change bond types (single-double-triple) or easily sprout bonds from a carbon atom.
- 3. SciFinder now provides the ability to paste structures generated by ChemDraw into the structure editor.



Reaction Search and Display

Non-participating Functional Groups

- A Non-participating Functional group is a functional group in a reactant that is mapped to the same functional group in a product and which survives the reaction unchanged.
- Non-participating Functional Groups can be used to Limit or Refine an answer set to reactions that include one or more functional groups and/or functional group classes in a nonparticipating role.
- Draw a reaction query, then select one or more Nonparticipating Functional Groups from the list.

Create Keep Me Posted) "Rea	action Structure substructur	e > reactions (122)	
Explore Reaction	IS		
Reaction Structure	Reaction Structure 🤣	Click image to change structure or view detail Search type: I Allow variability only as specified Substructure	Search
	Solvent(s) 🖗 Non-participating 🖗 Functional Group(s)	Select Solvents Close IET: View: All 217 ▼ 1 Selected Clear Selections Ketenimine KETONES Lactam ✓ Lactone Metal Arene Metal Carbene Metal Carbonyl Metal Halide Metal Hydride Reactions must have ③ all selections	
		any selection	

Non-participating Functional Groups (cont.)

4. After running the reaction substructure search with the lactone non-participating functional group limiter, the results are more targeted to reactant and product structural characteristics.

Find Additional Reactions

- 1. Find Additional Reactions searches references that contain structurally matching substances that have a synthetic preparations role.
- 2. Select **Find Additional Reactions** to search for reactions matching the reaction answer set query. Note the original query resulted in 122 reactions.

Find Additional Reactions (cont.)

 The new answer set of 295 reactions contains 187 Additional Reactions. There are no reaction conditions or reactants.

The display shows a product and the number of references associated with it.

95 Reactions 0 Selected Keen Selected Remove Selecter		5	ave Print Export	Analyze by: 🕖
87 reactions with the Answer Types Additional Reactions are displayed	Keep Analysis Clear Analysis			Answer Type
elect All Deselect All Sort by: Entry Order 🗸	Answ	vers per Page [15] 1	2345613 🕨	Click bar to view only those react
109. Reaction Detail Θ Link Heo Heo				Additional Reactions

Enhanced Reaction Display – Commercial Sources

Designating Preferred Suppliers

Selecting a Supplier

reate Keep Me Posted Reaction Structure substructure > reactions (122) > commercial sources (74) > ALDRICH 1. Select a supplier to see additional Commercial **Commercial Sources** Source Detail. 74 Commercial Sources 1 Selected Keep Selected Remove Selected Print Export Select All Deselect All Sort by: Catalog Name ~ Answers per Page [20] 1234 1. 3B Scientific Corporation Product List Supplier Name: 3B Scientific Corporation, Catalog Publication Date: 1 Jan 2010 Order Number: 3B2-5384, Quantity: 5g 518-28-5 Podophyllotoxin GO Link Dec Link
 2. ABCR Product List
 Supplier Name: ABCR GmbH KG, Catalog Publication Date: 11 Apr 2007
 Order Number: ABLG7899, Quantity: 25 mg
 518-28-5 (-)-Podophyllotoxin GO Link 3. ACC Corp. Chemical Compounds Catalog Supplier Name: American Custom Chemicals Corp., Catalog Publication Date: 21 May 2009 Order Number: HBL0000185, Quantity: 100mg, 1g, 10g, 100g 518-28-5 Podophyllotoxin GO Link 4. Acros Organics Supplier Name: Thermo Fisher Scientific, Catalog Publication Date: 12 May 2008 Order Number: 22841, Quantity: 100mg 518-28-5 Podophyllotoxin GÐ Link So Link Supplier Name: AK Scientific, Inc, Catalog Publication Date: 1 Jan 2010 Order Number: 70719, Quantity: 100g, 1g, 25g, 5g SIR-28-5 Puodphyliotoxin Ge Link 6. ALDRICH Supplier Name: Sigma-Aldrich, Catalog Publication Date: 1 Jan 2010 **v** Order Number: 858447, Quantity: 1 g 518-28-5 Podophyllotoxin

Designating Supplier Status

 Clicking on Status provides the ability to designate a supplier as preferred or non-preferred. The default status is Unclassified.

Commercial Source Detail					
			Link	Print	Exp
				Previous	Ne
5. ALDRICH					
Catalog Information		Substance Information			
Catalog Publication Date: 1 Jan 2010 Order Number: 858447 Quantity: 1 g, Price: contact supplier		CAS Registry Number: 518-28-5 Podophyllotoxin			
Catalog Suppliers		$\begin{array}{c} HeO \\ \hline \\ R \\ H \\ \hline \\ H$, ••• tation (-).		
Below are the contributing supplier(s) to this catal	og.				
Supplier Name	Address	Contact Information	Status NEW		
Sigma-Aldrich	P O Box 14508 St. Louis, MO 63178	Phone: 1-800-325-3010 Phone: 1-314-771-5765	Pret	erred ferred	Ť
	USA	Phone: 1-314-771-5750 (Call Collect) Fax: 1-800-325-5052 Fax: 1-314-771-5757	Nor	Preferred	
		Web: http://www.sigma- aldrich.com Please see website for additional locations around the			

View Preferred Suppliers in an answer set

1. In subsequent displays of	Commercial Sources 83 (nonmercial Sources	Export	Analyze by: 🚸
commercial sources your preferred suppliers are indicated.	B3 Commercial Source 0 Selected Keep Selected Remore Selected Print Print This chemical suppler information is provided on an "as is" basis. Please consult the supplers for current information regarding pricing, regional availability, avail quantities, purices, etc. THERE REF NO WARRANTIES OF ANY KIND, ETHER EXPRESSED OR IMPLIED. ACS is not liable for any loss of profit, goodwill or any of damages arising out of the use of this information. Select All Deselect A Sort by: Suppler Preference ▼ Answers per Page [20] 1 2 3 3 23. ALDRCH Catalog is associated with a preferred supplier(s) Answers per Page [20] 1 2 3 Supplier Name: timma-Aldrich. Catalog is associated with a preferred supplier(s) Supplier Name: Sigma-Aldrich, Catalog Publication Date: 24 Nov 2009 Order Number: Sigma-Aldrich, Catalog Publication Date: 24 Nov 2009 Coder Number: Sigma-Aldrich, Catalog Publication Date: 24 Nov 2009 Order Number: Sigma-Aldrich, Catalog Publication Date: 24 Nov 2009 Coder Number: Sigma-Aldrich, Catalog Publication Date: 24 Nov 2009 Order Number: Sigma-Aldrich, Catalog Publication Date: 24 Nov 2009 Coder Number: Sigma-Aldrich, Catalog Publication Date: 24 Nov 2009 Order Number: Sigma-Aldrich, Catalog Publication Date: 24 Nov 2009 Coder Number: District All Nov 2009 Order Number: Sigma-Aldrich, Catalog Publication Date: 24 Nov 2009 Coder Number: District All Nov 2009 Order Number: Sigma-Aldrich, C	Export ble s 5	Supplier Preferences Cick bar to view only those commercial sources within the current answer set SIGMA-ALDRICH, ST. LOUIS, USA 4 VWR INTERNATIONAL, LLC, WEST CHESTER, USA 4 Unclassified 74 Non Preferred 1 Show More
	280-57-9 1,4-Diazabicyclo[2.2.2]octane 299% Ge Link 7.9, SIGMA		

Add/Edit Suppliers in Preferences

1. There is a new **My Suppliers** Preferences option that provides the capability to add/edit suppliers and maintain lists of those that are preferred and non-preferred.

			× Return to Prefere
Supplier Name	City	Click 'x' to remove	supplier from preferre
AURORA FINE CHEMICALS LLC	SAN DIEGO	USA	0

Usability Enhancements

Combine Current and Saved Answer Sets

- SciFinder allows you to combine a current and 1 or more saved answer sets into a new answer set. Only entire answer sets can be combined. You cannot add selected answers from the current answer set to one or more saved answer sets.
- 2. To combine a current answer set and one or more saved answer sets first run a search that retrieves an answer set for References, Substances, or Reactions, and then click **Combine Answer Sets**.
- 3. The Combine Answer Sets dialog displays. It lists the current answer set and the saved answer sets of the same type.

Ansv	wer Sets 1 Selecte	d		
	reaction Answe	er Set Details	Date Saved	
	quercetin as read Reaction Structur	tant (11551) e substructure > reactions (11551)	Jun 16, 2009	
	quercetin as proc Reaction Structur	luct (2233) e substructure > reactions (2233)	Jun 16, 2009	
~	caffeine reactions Reaction Structur	s limited by water as a solvent (2162) e substructure with limiters > reactions (2162)	May 28, 2009	
iect a	an option for combi	ning the answer sets:		
	💭 Combine	Include all answers from both sets		
(Intersect	Include only answers that appear in both sets		
(IntersectExclude	Include only answers that appear in both sets Include only answers from Current answer set (295) that are not in caffeine reactions limited by water as a solvent (2162)		
	 Intersect Exclude Exclude 	Include only answers that appear in both sets Include only answers from Current answer set (295) that are not in caffeine reactions limited by water as a solvent (2162) Include only answers from caffeine reactions limited by water as a solvent (2162) that are not in Current answer set (295)		

Export Answers in .ris Format

18. Language: English, Database: CAPLUS 1. Use the Export function to re prepd. using aryl chlorides in the presence of Pd catalyst solns. Thus, a mixt. of Pd(OAc)2, 1-mel save a copy of an answer -adamantyl)phosphine, and K3PO4 were heated together in N-methylpyrrolidone at 125° for 24 h to set on your computer. Answers can be exported in 🖻 Link 🗩 🛛 🗘 Export 🚸 several formats. New with 1-yl)caffeine ai ntagonism o this release is export to the * Required Jacobus J.; Petze .ris format, which allows 84. Language: E Export: attractive targe SciFinder references to be hat antagonists c 💿 All e and may hel ly that several m imported into citation Only selected software, such as EndNote® also are poter tors are known t rugs that bloc nage... and Reference Manager[®]. File Name: * 🛛 Link 🌩 O Ci Bib Export nyllotoxin an Xuan; Zhang, > File Type: NEW hinese, Databas Citation export format (*.ris) ¥ 4β-thioetherere synthesized, vae of Mythimna elemental an Export Cancel ilts showed th nthesized compds ty) were 164.8<mark>° and 240.1 mg</mark>, 🛛 Link 🌩 O Comments 🛛 🖬 O Tags imidazolium salts. A new family of highly efficient and reusable catalysts

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Document Titles Use of any chlorides in na	ladium-catalyzed anylation of beterrorycles, benznates, and phenols, Daugulis, Olafs US20090012293 &1 (Full-text Ontional
 Dual inhibition of monoami Judeγ (2008) [Full-text Opt 	ne oxidase B and antagonism of the adenosine A2A receptor by (E,E)-8-(4-phenylbutadien-1-yl)caffeine analogues. Pretorius ions]
🗹 Synthesis and antifeedant	activity of podophyllotoxin analogues with 4β sulfur substituted groups. Chen, Libiao (2006) [<u>Full-text Options]</u>
 Metal triflates combined w <u>Options</u>] 	th caffeine-based imidazolium salts. A new family of highly efficient and reusable catalysts. Pinto, Rui M. A. (2007) [<u>Full-tex</u>
	Order Documents Email References

.sfr to .akx File Conversion Tool

1. CAS now provides a free tool for converting client based saved answer set (.sfr) files to the new, webbased .akx format.

The tool is available at:

https://scifinder.cas.org/utils /sfr2akx/

File Selection	sfr to akx Conversion Tool
Username	Follow these steps to convert SciFinder client files (.sfr) to the ne web format (.akx).
Filename Browse	1. In the File Selection box enter your Username.
Convert to akx	Click the Browse button to locate and select the .sfr file or .z collection of multiple .sfr files you wish to convert.
Your SciFinder username is assigned to you alone and may not be shared with anyone else.	 After you have finished making your selection click the "Convert to akx" button
Launch SciFinder	 After the conversion to akx format has completed you will be prompted to either Save the resulting.akx file (or .zip file containing multiple .akx files) or choose a program to Open Select the Save option.
	5. If problems are encountered in the conversion process, you will receive either, an on-screen alert in the case of a single .sfi file containing a Readme file will details of successful or failed conversions if a .zip collection was used originally. The conversion tool will ask you to save open this file.
	6. To import the .akx file into SciFinder, login and then click the Import button which is located in the Saved Answer Sets are on the right side of any Explore page. When the Import Answer Set dialog box appears, click Browse to locate the .a file you wish to import and then click OK to import the file.
	Note: .zip is the only compression format supported by this tool.

CAS Cus	stomer Care
Phone:	800-753-4227 (North America)
	614-447-3700 (worldwide)
Fax:	614-447-3751
E-mail:	help@cas.org
Internet:	www.cas.org

